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CLAIMS AS AMENDED:

1. (Currently Amended) A method of determining the *initial dose* of a *vitamin D compound* [[,]] for the treatment of secondary hyperparathyroidism and renal osteodystrophy without increasing the incidence of hypercalcemia comprising:
 - a) measuring a patient *baseline PTH (bPTH)* value,
 - b) determining [[the]] a final dose of the vitamin D compound, where the final dose is that dose associated with a first stable clinically significant reduction in patient intact parathyroid hormone (PTH) for the vitamin D compound,
 - c) Applying the *baseline PTH value* and *final dose* to regression analysis, and
 - d) calculating the *initial dose* of the *vitamin D compound* from the regression analysis of step c.
2. (Currently Amended) The method of claim 1 wherein the [linear model] regression analysis is a zero intercept linear model.
3. (Original) The method of claim 1 wherein the vitamin D compound is a vitamin D₂ compound.
4. (Original) The method of claim 3 wherein the vitamin D₂ compound is paricalcitol.
5. (Currently Amended) The method of claim 4 wherein the initial dose is patient baseline PTH/80 (bPTH/80).
6. (Currently Amended) [[The]] method of treating secondary hyperparathyroidism and renal dystrophy using a vitamin D compound without increasing the incidence of hypercalcemia [[claim 1 further]] comprising
 - a) measuring a patient baseline PTH value;

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b) determining a final dose of the vitamin D compound associated with a first stable clinically significant reduction in patient PTH for the vitamin D compound;

c) applying the baseline PTH and final dose to regression analysis;

d) calculating the initial dose of the vitamin D compound from the regression analysis of step c; and

e) [[administration of]] administering the initial dose determined in step d to the patient.

7. (Currently Amended) A method of treating elevated intact parathyroid hormone (PTH) in a patient commencing treatment for [[ESRD]] end stage renal disease, the method comprising:

a) determining the initial dose of a vitamin D compound from a regression analysis based on a patient baseline PTH (bPTH) and a final dose of the vitamin D compound associated with a first stable and clinically significant reduction in patient PTH for the vitamin D compound, and

b) administering the initial dose of the vitamin D compound determined in step a to the patient.

8. (Original) The method of claim 7 wherein the vitamin D compound is paricalcitol.

9. (Currently Amended) The method of claim 8 wherein the initial dose is about patient baseline parathyroid hormone/80 (bPTH/80).

10. (Currently Amended) A method of treating a patient [undergoing vitamin D therapy] for end stage renal disease [[ESRD]] using a vitamin D therapy, [[wherein the]] comprising administering an initial dose of vitamin D [[administered]] to the patient wherein the initial dose of vitamin D is about patient baseline parathyroid hormone/80 (bPTH/80) and bPTH is the baseline PTH for the patient.